2P. File No. 54 1940 —194 /.

Previous reference :

Later reference :

GEN. & REV. SECRETARIAT

BOARD OF INDUSTRIAL PLANNING & CO-ORDINATION

SUBJECT.

Research Problems on Forest-Minor Products

P.15
E

BOARD OF INDUSTRIAL
PLANNING AND COORDINATION.

MYSORE ECONOMIC CONFERENCE.

~~BOARD OF INDUSTRIES AND COMMERCE.~~

Subject ... Research on Forest Minor Products

File No. of 19

Letter No. C. Eng 531/39-40 dated 26/28th August 1940 from the Director of I & C forwarding copy of a note received from the Chief Conservator of Forests is herewith putup.

The note of the Chief Conservator under reference, is very brief & only indicates the problems (a few) of Research importance in the utilization of Minor Forest Products of the State. It is not quite clear if all the Problems are now being tackled at the Forest Research Laboratory & if so the Progress achieved in this direction if have not been indicated. The ~~vast~~ Vast, rich resources of Forest Produce in the State, no doubt require immediate & careful ~~exploitation~~ exploitation, & conducting well laid out Research investigations to give a filip to the Industries of the State.

The Chief Conservator might be requested to furnish a detailed note on the Problems touched & oth & their

YB.

9/12

NOTE—Contn. Sheet.

WD 921—GPB—1,500—26-9-28

BOARD OF INDUSTRIAL
PLANNING AND COORDINATION.

in the note mentioned supra, indicating whether the Forest Research Labs is engaged on these Research Problems

By + By he may be requested to forward the Programme of work drawn up for the Research Lab^y. for examination by the Board. After obtaining full information, a note might be submitted to the Chairman for final orders.

This will come under the category of the General Circular we intend issuing to all the Labs

9/12

For orders as all the above facts

8/12/40.

Secy)

Draft Letter to C.C. & Forests
Perusal for approval

9/12/40

Issued
11/12/40

Reminder (D & T) to Chief Conservator & Forests - Perusal for Regarding

5/1/41

Secy)

Appd & Secy
and issued
on 6/2/41

Letter No. M.88/8419-40 Dt 26.2.41
from the C.C. & E. Forest Service Products

Seen by Secy
vide remarks on
opposite page

Research work on Minor forest produce.

BOARD OF INDUSTRIAL PLANNING AND COORDINATION

General and Revenue Secretariat

File No. of 194 . [App. F. III-2

Serial No.

The C.C.F intimates in Feb 1941, that the following Research Problems in the utilization of Minor Forest Products were engaging the attention of the Forest Research Laboratory and that as suggested by the Chemical & Dye & Essential oil Sub Committee he is taking necessary action to appoint a Chemist for Research work on tanns. Further reports have not been received. The time has now arisen for a careful & planned exploitation of the rich resource of forest produce in the State, by conducting well laid out investigations to give a fillip to the industries in the State. The Forest Research Lab'y. is well equipped & eminently suited for this purpose. Perhaps the C.C.F may be requested to send a detailed note on the "M.F. Produce" and its exploitation for the consideration of the Board. The appointment of a Standing Sub Committee of the Board with suitable Technical personnel is for consideration for orders.

(1) Vegetable insecticides.
(2) Indigenous Dye, Anchora & Alstonia Scholaris.
(3) Tanstuffs.

14/12/41

14/12/41

Draft D.O. letter

14/12/41

14/12/41

NOTE—Cont. Sheet.

WD 04155—GPB—55,000—23-10-41

Utilization of Minor Forest Produce

284-5.

File No. of 194 .

General and Revenue Secretariat

Serial No.

Revised draft Press as per visits

18/12

Sd

21.12.42

D. No. CC.I

No. 3f 406/42-3, 22.12.42

CC I
CC 3
22/12

No report has been received
& the matter is taken up by them
separately. File closed as
per visits

10/1/43.

Tele {Phone No. 2094
Grams—INDUSCOM.

In reply please quote number, date & short title.

GOVERNMENT OF MYSORE

DEPARTMENT OF INDUSTRIES AND COMMERCE.

532
30-8-40

FROM

B.G.A.Mudaliar, Esq., B.A.,B.Sc.,A.M.I.,Mech.,E.,
Director of Industries and Commerce in Mysore,
Bangalore.

To

The Director of Sandalwood Oil Factory in Mysore,
and Secretary, Central Industrial Research Board,
Mysore.

No. C1.Enq.,531/39-40 Dated. the 26th August 1940.

Enclosures

SIR,

Subject.
Particular lines of Research on Minor Products.

***

I have the honour to enclose herein a copy of Note received from the Chief Conservator of Forests in Mysore, Bangalore, for favour of such action as you deem necessary.

I have the honour to be,
Sir,
Your most obedient servant,

For Director.

'BV3

There is an Established Demand for Citronella oil. Mysore Produces most of the leaves and bark from which the oil is extracted by Bhatti and exported to Bombay Via South Kanara Ports. The Rights of Collection of the leaves and bark are annually auctioned and the Buyers distil the oil in the Forests. It may be possible to so fix up the terms of auction as to make it obligatory for the Buyers to sell the oil back to the F.D. This is a matter for investigation.

30/8

Some Research problems of Mysore in the utilisation of Minor Forest Products.

1.The classiiication of a forest product as 'Minor'is governed by purely regional considerations so that ~~what~~ what is only a 'M.F.P.' in one Province might conceivably be the most important forest product of another. With this in view, the following problems have been listed as being of significant value to Mysore. It may,perhaps be added that Mysore is well placed to take part in any co-operative research work that may be ~~initiated~~ initiated from an all-India point of view. Climatic conditions and the range of rain fall in Mysore are peculiarly suitable for experiments in the growth of extotics while it is one of the few provinces having a forest research laboratory of its own. It has the further advantage of being able to carry many experiments on a semi-commercial scale under industrial conditions at Bhadravati. Finally, at the Government Industrial and Testing Laboratory, Bangalore, can be conducted pharmaceutical tests on the drugs that might be collected from the forests.

2.Utilisation of wood tar creosote:-

At present, that tar residues obtained from the distillation of wood at Bhardravati is very nearly a waste. The magnitude of the quantities involved may be gauged from the fact that annually some 120,000 tons of fuel are converted into charcoal. One method of utilising this wood-tar creosote would be to impregnate timber. The practical difficulty is the acidity of the tar residue which corrodes the plant. The problem is to economically neutralise this acidity(or otherwise prevent its action on the plant equipment) such that the preservation value of the material is satisfactory.

3.Briquetting of Charcoa;:-

At Bhadravati, approximately 5 tons of charcoal braize a day

remain un-utilised. Some work on the briquetting of this dust has already been done at Dehra Dun. But, for Mysore conditions, two special features need to be stressed. Firstly; the binder material must not contain more than traces of the elements which the metallurgy of the blast furnace rules out. Secondly, very humid conditions prevail at Bhadravati during the monsoon period so that the binder selected should be non-hygroscopic. Artificial drying of the briquettes may also be necessary.

4.Drugs and herbs:- Attempts have been made in the past to collect data on this subject. But, not much information is available on the quantities available and the cost of collection. These of course are as important data as the chemical assay and the pharmaceutical value. The whole subject has to be studied on a large planned basis. Mysore offers the facility of the equipment of the Government Industrial Laboratory which has actual commercial experience in the conversion of indigenous drugs to medicinal preparations of pharmaceutical standards and their subsequent marketting. Vegetable insecticides are proving of increasing value and importance and some work has already been done by the Forest Research Laboratory.

5.Oils and Resins:- Amongst the many oils and resins which promise valuable and interesting results, the first place may be given to Dhuma(Deptrocarpus Spp)oil. As a base for paints and varnishes, this oil might prove valuable. More interesting would be the thereupatic value of its reputed content of copaiba in the treatment of venerial diseases. There are other oil seeds of forest origin which need to be investigated. Resin and glues also come under this categary.

6.Sapwood of Sandal:- Mysore produces considerable quantities of 'White Chips' which have only a fuel value.There are grounds for believing that it would make satisfactory wood-flour for being used as fillers in moulding compositions.

7.Use of bamboos in the bent form:- The use of steamed bent bamboo for various purposes(furniture, sports goods,toys, mathematical instruments etc.,)has been developed in Japan and latterly in Siam and this problem deserves study.

8.Vegetable Dyestuffs from forests:-

Some work on a purely empirical basis has been done in Mysore with reference to cotton fabrics. Their trial under work conditions with hand-spun and woven cotton cloth has also been attempted on scientific lines.

Sd/- K. R. Venkata Rao,

For Chief Conservator of Forests.

****

Copy,

For Director.

BV3)26-8-1940.

Industrial Research Board.

No. 137/40-41

Office of the Secretary,
Mysore Road,
Bangalore, Dated, 11th Dec 1940.

From

K.Parthasarathi, Esq., B.A.,
Secretary, Industrial Research Board,
Bangalore.

To

C. Abdul Jabbar, Esq., B.A.,
Chief Conservator of Forests in Mysore,
Bangalore.

Sir,

Subject: Research work on Minor Forest Produce.

I am directed to state that the Director of Industries and Commerce in Mysore, has forwarded a copy of your brief note on the Research Problems of Mysore in the utilisation of minor Forest products for perusal of the Board.

I am to request you to be so good as to kindly forward a detailed note on the various problems suggested. The Board may also be informed if these problems are engaging the attention of the Forest Research Laboratory. I shall also be glad to have your valuable suggestions on the various problems, for being placed before this Board at its next meeting.

I have the honor to be,
Sir,
Your most obedient servant,

Secretary,
Industrial Research Board.

No.423/40-1

5th February 1

6

The Chief Conservator of Forests
in Mysore, Bangalore.

Subject: Research work on Minor Forest Produce.

I am directed to invite a kind reference to this office letter No.137/40-41 dated 11th December 1940, on the above subject, and to request an early reply thereto.

I have the honor to be,
Sir,
Your most obedient servant,

Secretary,
Industrial Research Board,
BANGALORE.

MYSORE FOREST DEPARTMENT.

No. M.33-549/40
Encl. one

OFFICE OF THE CHIEF CONSERVATOR OF FORESTS
IN MYSORE,
Bangalore, dated 22nd February 1941.

FROM

The Chief Conservator of Forests
in Mysore, Bangalore.

To

The Secretary,
Industrial Research Board,
Bangalore.

Sir,

Subject:- Research work on Minor Forest Produce.

With reference to your letter no. 137/40-41 dated the 11th December last and subsequent reminder letter No.423 dated the 6th instant on the above mentioned subject, I have the honor to forward herewith a note on 'Some Research Problems of Mysore in the utilisation of Minor Forest Products' and to state that the marginally noted problems are engaging the attention of the Forest Research Laboratory.

(a) Vegetable Insecticides,
(b) Indigenous Drugs, Cinchona and Alstomia Scholaris,
(c) Tanstuffs.

The Chemicals, Drugs and Essential Oils Sub-Committee have recommended the appointment of a Bio-Chemist to the Forest Department for research on farms and proposals have been called for from the Forest Chemist, Forest Research Laboratory, Bangalore.

I have the honor to be,

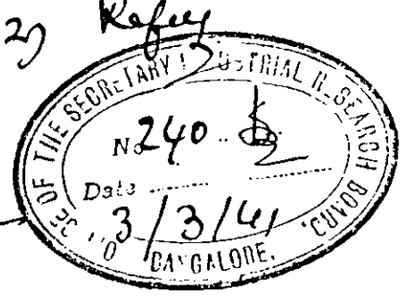
Sir,

Your most obedient servant,

Chief Conservator of Forests.

Ack 4/3

1) Ack.
2) Refer



Jhz

Refer with refs for orders

Jhz
23/3/41.

Secy's wishes (on 24.4.41)
" I have talked to the C.C.F. Let this lie over for some time "
Jhz 24/4/41

Some Research problems of Mysore in the utilisation of Minor Forest products.

1. The classification of a forest product as "minor" is Governed by purely regional considerations so that what is only a "M.F.P." in one province might conceivably be the most important forest product of another. With this in view, the following problems have been listed as being of significant value to Mysore. It may, perhaps, be added that Mysore is well placed to take part in any co-operative research work that may be initiated from an all-India point of view. Climatic conditions and the range of rainfall in Mysore are peculiaryly suitable for experiments in the growth of exotics while it is one of the few provinces having a forest research laboratory of its own. It has the further advantage of being able to carry many experiments on a semi-commercial scale under industrial conditions at Bhadravati. Finally, at the Government Industrial and Testing laboratory, Bangalore, can be conducted pharmaceutical tests on the drugs that might be collected from the forests.

2. Utilisation of wood tar creosote.

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3. Briquetting of charcoal. At Bhadravati, approximately 5 tons of charcoal braize a day remain un-utilised. Some work on the briquetting of this dust has already been done at Dehra Dun. But, for Mysore conditions, two special features need

P.T.O.

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P.T.O.

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8. Vegetable Dyestuffs from forests.

Some work on a purely empirical basis has been done in Mysore with reference to cotton fabrics. Their trial under work conditions with hand-spun and woven cotton cloth has also been attempted on scientific lines.

G.S. Ramaswamy 15.2

Chief Conservator of Forests.

I. R. B. 6]

SUBJECT Utilization ~~Research~~ Work of Minor Forest Produce in the State

No. D. P. 406/42-3

To

The Chief Conservator of Forests in Mysore, Bangalore

Date of issue 22/12/42

Signed by Mr. T.S.

Sir,

In inviting Kind reference to Your letter No. M. 33-549/40 dated 26. 2. ~~42~~ 41, on the subject I am directed to request You to be so good as to arrange to forward a detailed note on the Minor Forest Produce of the State and its Planned exploitation for industrial Purpose, for the Consideration of the Board.

D. Lh 18/12

D. Lh 21.12.42